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# **ATI HDTV**

## **Component Video Adapter**

### **Installation and Setup User's Guide**

P/N: 117-70104-30

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### ***Documentation updates***

ATI is constantly improving its product and associated documentation. To maximize the value of your ATI product, you should ensure that you have the latest documentation. ATI's documentation contains helpful installation/configuration tips and other valuable feature information.

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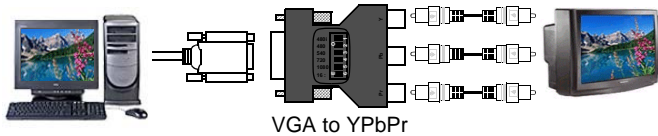
## CHAPTER 1

# Getting Started

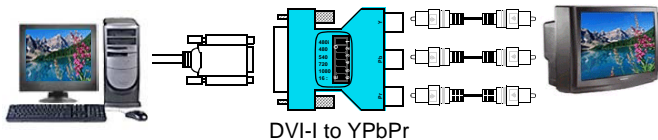
View computer output directly on your High Definition Television or other component input device. Provide a big-screen experience for your PC that is ideal for playing games, giving presentations, watching movies, and browsing the Internet.

The ATI HDTV Component Video Adapter converts standard VGA or DVI-I video output from your RADEON Series card or ALL-IN-WONDER RADEON Series card to component video that you can display on your High Definition Television or other component input device.

- For a list of supported RADEON family cards, visit [www.ati.com](http://www.ati.com).



***CRT / Analog Flat Panel Monitor***



***Digital Flat Panel Monitor***



Depending upon the model of your ATI graphics card, some of the following features may not be installed:

- Multimedia Center components
- TV applications

## System Requirements

<b>Processor</b>	Intel® Pentium® 4 / III/ II / Celeron™, AMD® Athlon®, or better.
<b>Graphics Adapter</b>	Visit <a href="http://www.ati.com">www.ati.com</a> for a list of supported graphics adapters.
<b>Operating System</b>	Visit <a href="http://www.ati.com">www.ati.com</a> for a list of supported operating systems.
<b>Monitor</b>	A CRT monitor is required to install the ATI HDTV Component Video Adapter, and to run DOS applications.
<b>Television</b>	HDTVs or SDTVs that accept component input.

## Warranty

The ATI HDTV Component Video Adapter is warranted for one year. Accompanying product accessories are warranted for 90 days.



For information on your video card's graphics features, double-click the ATI icon in the lower-right corner of your screen, or go to [www.ati.com](http://www.ati.com).

## HDTV Kit Contents

- ATI HDTV Component Video Adapter
- Installation and Setup User's Guide




## CHAPTER 2

# Setting up Your ATI HDTV Component Video Adapter

Setting up the ATI HDTV Component Video Adapter consists of four, easy steps.

- **Installing the software** — [page 4](#)
- **Setting the DIP switches** — [page 5](#)
- **Connecting the Adapter** — [page 6](#)
- **Selecting the viewing mode** — [page 7](#)

This chapter explains how to connect the ATI HDTV Component Video Adapter to your computer and component input display device. The version of your ATI graphics card determines which ATI HDTV Component Video Adapter to use — visit [www.ati.com](http://www.ati.com) to ensure that you have the correct model for your card.

RADEON Family Card	ATI HDTV Component Video Adapter Model	
<ul style="list-style-type: none"> <li>• RADEON 9800/9700/9500 Series</li> <li>• ALL-IN-WONDER RADEON 8500</li> <li>• ALL-IN-WONDER RADEON 8500DV</li> </ul>		<b>DVI-I to YPbPr</b>
<ul style="list-style-type: none"> <li>• ALL-IN-WONDER RADEON 9600 PRO</li> <li>• RADEON 8500 64MB</li> <li>• RADEON 8500 128MB</li> <li>• RADEON 8500 LE</li> </ul>		<b>VGA to YPbPr</b>
<ul style="list-style-type: none"> <li>• ALL-IN-WONDER 9700 Series</li> <li>• ALL-IN-WONDER 9800 Series</li> </ul>		<b>A/V Out to YPbPr</b>
<ul style="list-style-type: none"> <li>• When used with ALL-IN-WONDER RADEON family products, the ATI HDTV Component Video Adapter will not operate in multi-monitor configurations, including clone mode.</li> <li>• This list illustrates example products; it does not show all products.</li> </ul>		

## Installing Your ATI HDTV Component Video Adapter



You must have a CRT monitor attached to your computer **before** installing the ATI HDTV Component Video Adapter.

For proper operation of your ATI HDTV Component Video Adapter, ATI display drivers must be correctly installed.

### ***For “Built by ATI” and “Powered by ATI” products***

- 1** Download the latest CATALYST drivers from [www.ati.com](http://www.ati.com), and follow the on-screen installation instructions.
- 2** Shut down your computer, and then disconnect your monitor.
- 3** Set the DIP switches on the ATI HDTV Component Video Adapter (see [Setting the DIP Switches](#) on page 5). Ensure that **all** timings that your TV supports are turned ON (DIP switch up). **Note:** *540i and 540p modes are not supported at this time.*



## Setting the DIP Switches

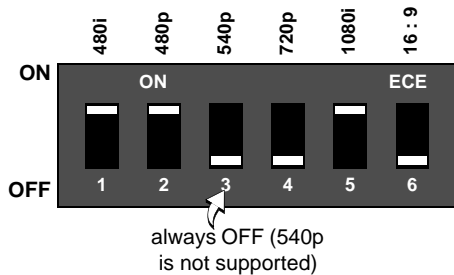
### Modes



- DIP switch 3 is always OFF (540p is not supported)
- Set **all** DIP switches ON that correspond to the modes that your component input device supports; for further details, consult the manual for your component video input device

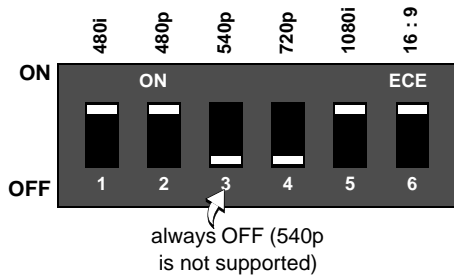
The six DIP switches on the ATI HDTV Component Video Adapter enable four, standard HDTV video modes: 480i, 480p, 720p, and 1080i.

The default setting is 480i or 480p, depending upon your component input device. In the above example, 480i, 480p, and 1080i are supported



### Aspect ratio

If your display supports 16:9 aspect ratio, set DIP switch 6 (16:9) ON. This switch toggles between 4:3 and 16:9 — OFF is 4:3.



In the above example, the component input display supports 480i, 480p, 1080i, and 16:9.

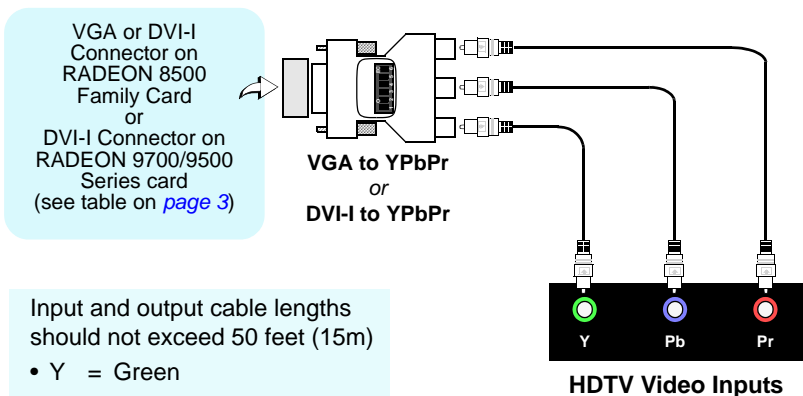
Use a small, flat-head screwdriver to set the switches — the up position is ON, and the down position is OFF. Set the switches ON for **all** modes that your HDTV or component input device supports.



The “best” display mode depends upon your component input device — try different modes to find which provides the most satisfactory picture.

Use the Windows Display Properties to select the viewing mode you want. See *Windows® Control Panel Settings* on page 7

- 4** Plug the appropriate ATI HDTV Component Video Adapter into the VGA connector or the DVI-I connector on your RADEON Series card, and tighten the thumbscrews.
- 5** Using the appropriate cables, connect the ATI HDTV Component Video Adapter’s outputs to your HDTV’s video inputs.



Input and output cable lengths should not exceed 50 feet (15m)

- Y = Green
- Pb = Blue
- Pr = Red

- 6** Turn on your component input device, and then set it to YPbPr input (see your HDTV or component input device manual for further instructions).
- 7** Turn on your PC. Your TV will not display anything until Windows starts; this may take several minutes.

*To return to your CRT monitor display, shut down your computer, re-connect the CRT monitor, and then restart your computer.*

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## CHAPTER 3

# Using Your ATI HDTV Component Video Adapter

Use the HDTV Component Video Adapter to watch DVD movies and play video games on your High Definition Television.



Copy-protected DVDs restrict playback to 480i and 480p modes.

For maximum performance when you watch DVD movies or play computer games on your HDTV, you should find the mode and screen resolution that provide the best result on your TV, and use those settings exclusively.

## Windows® Control Panel Settings

Use the Windows Control Panel settings to choose the resolution and HDTV display mode.

### *To change settings using the Windows Control Panel*

- 1 Click the Windows **Start** button, point at **Settings**, and then click **Control Panel**.
- 2 Double-click the **Display** icon, click the **Settings** tab, and use the **Screen Area** slider to select the resolution you want.  
*Note: If the resolution you select is not related to a timing, the system will reduce the resolution to the closest supported timing.*
- 3 Click the **Advanced...** button, then click the **Displays** tab.
- 4 Click the **YPbPr** tab.

The **HDTV** settings page opens. The settings you selected via the **DIP** switches are checked in **Dongle Settings**. (See [Setting the DIP Switches](#) on page 5.)

To override the **DIP** switch settings, check the modes you want in the **Custom Settings** buttons.

- 5 Click **OK**.
- 6 Click the **Advanced...** button,
- 7 Click the **Adapter** tab, then click the **List All Modes...** button.

*List All Modes is only available in Windows 2000 and Windows XP. It is not available in Windows 98 / 98SE, or Windows ME.*

- 8 Click **640 x 480**.
- 9 For Interlaced mode, click **30Hz** or **60Hz**.

*YPbPr is only available with the 30Hz or 60HZ settings.*



Windows XP does not enable 640 x 480 screen resolution by default. To set 640 x 480 resolution, right-click your desktop, click **Properties**, click the **Settings** tab, click the **Advanced** button, click the **Adapter** tab, click **List all modes**, then select **640 x 480**.

- 60Hz = Progressive.
- 30Hz = Interlaced

If you experience problems, please see [Troubleshooting Tips](#) on page 9.

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## CHAPTER 4

# Troubleshooting

This chapter contains troubleshooting tips for your Component Video Adapter. The following tips may help if you experience problems. Please contact your dealer for more advanced troubleshooting information.

## Troubleshooting Tips

<i>Problem</i>	<i>Possible Solution</i>
<b>The colors on my TV display are not correct</b>	Ensure that the connections between the Component Video Adapter and your HDTV are correct (Y=Green, Pb=Blue, Pr=Red). See the illustration on <a href="#">page 6</a> .
<b>There is no display on my TV</b>	Your TV will not display anything until Windows starts; this may take several minutes. <ul style="list-style-type: none"> <li>• Set your TV to YPbPr input.</li> <li>• Ensure that the HDTV Component Video Adapter is properly connected, then restart your computer.</li> <li>• Ensure that the drivers in the ATI HTDV Component Video Adapter Kit have been installed.</li> </ul>
<b>DVDs will not play in 720p or 1080i modes</b>	Copy-protected DVDs restrict playback to 480i and 480p modes.
<b>I can't see the entire display</b>	If your component input device supports it, try 720p mode.
<b>The display is tilted</b>	Consult your HDTV user's manual.
<b>My CRT display is green</b>	Your system is in component output mode. Restart your computer with the CRT monitor connected.



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